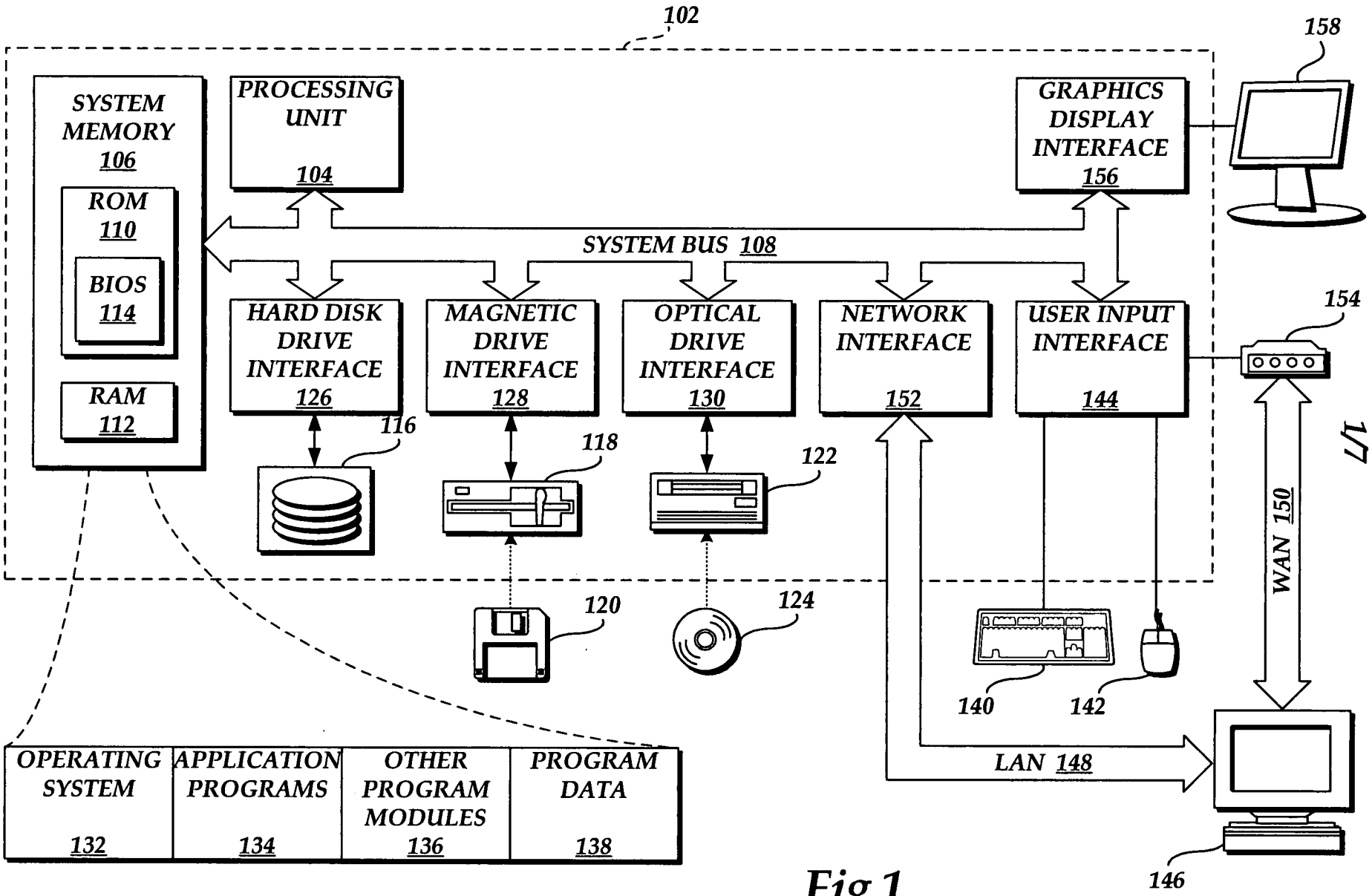

Fig.1.

Title: SYSTEM AND METHOD FOR DEPLOYING A SOFTWARE BUILD FROM A PLURALITY OF SOFTWARE BUILDS TO A TARGET COMPUTER
Inventors: J. Tigani et al.
Docket No.: MSFT121135

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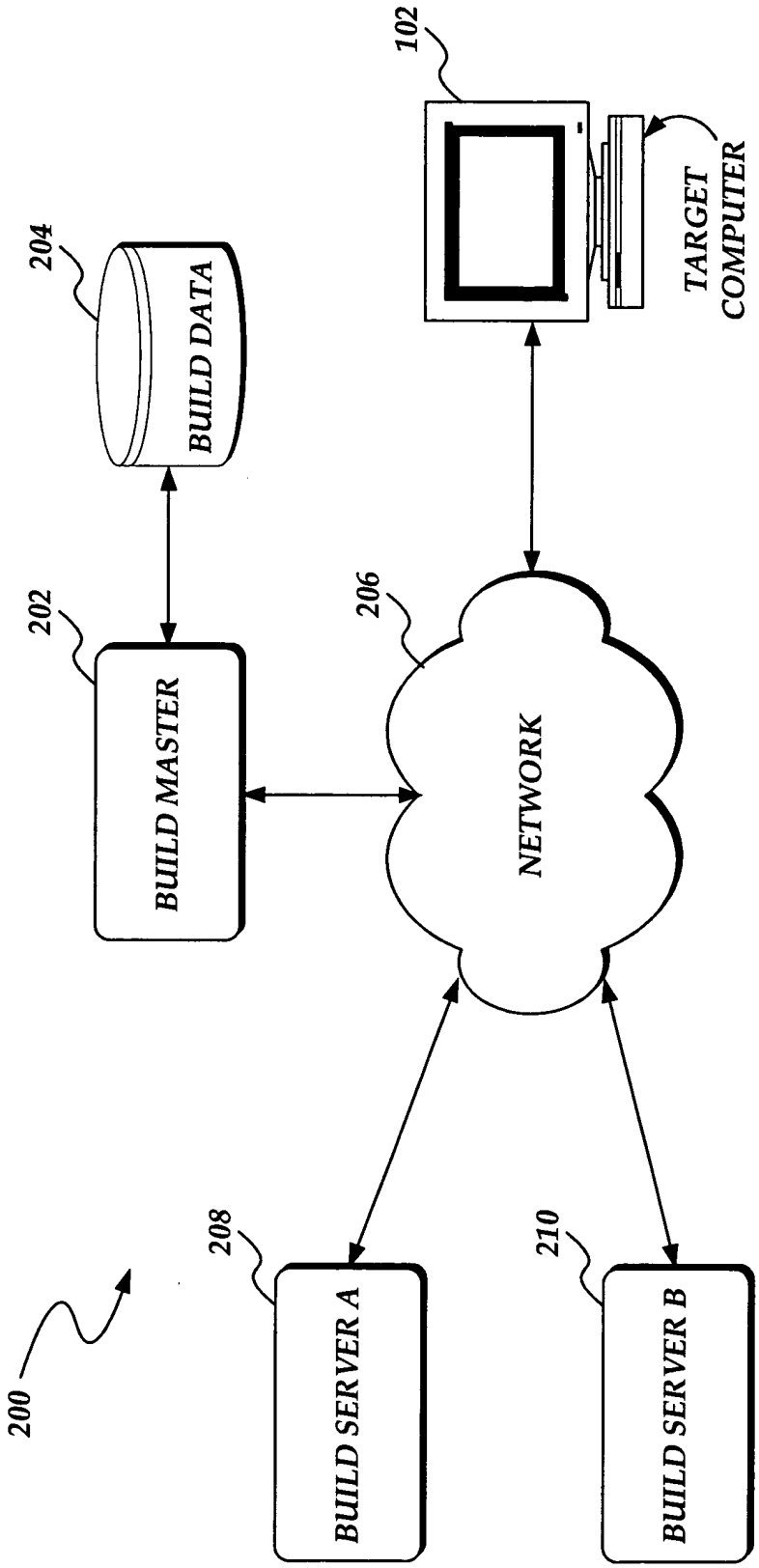
102
TARGET COMPUTER
204
BUILD DATA
202
BUILD MASTER
206
NETWORK
208
BUILD SERVER A
210
BUILD SERVER B
200

Fig.2.

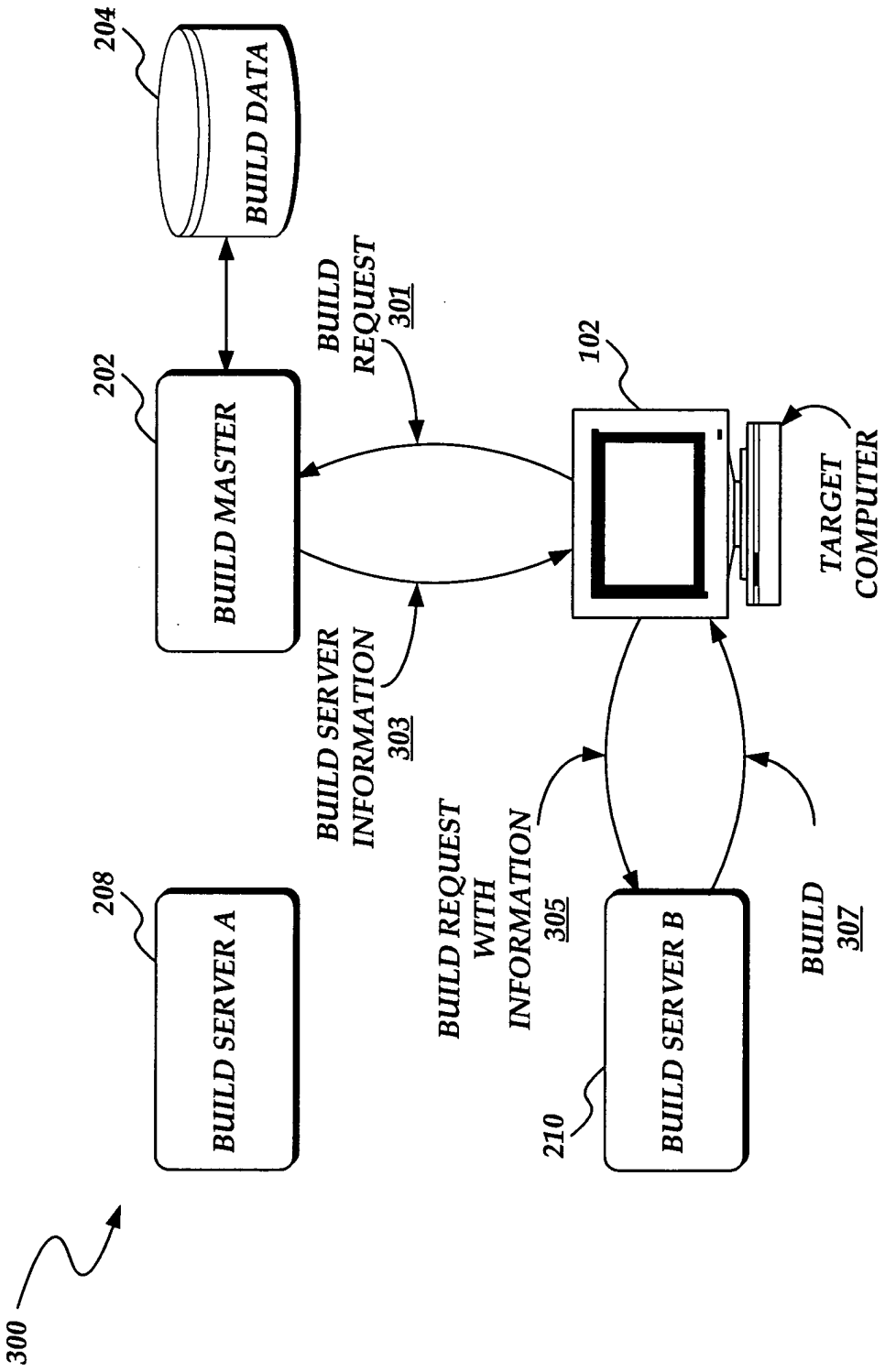
300
204
BUILD DATA
202
BUILD MASTER
208
BUILD SERVER A
210
BUILD SERVER B
102
TARGET COMPUTER
BUILD REQUEST 301
BUILD SERVER INFORMATION 303
BUILD REQUEST WITH INFORMATION 305
BUILD 307

Fig.3.

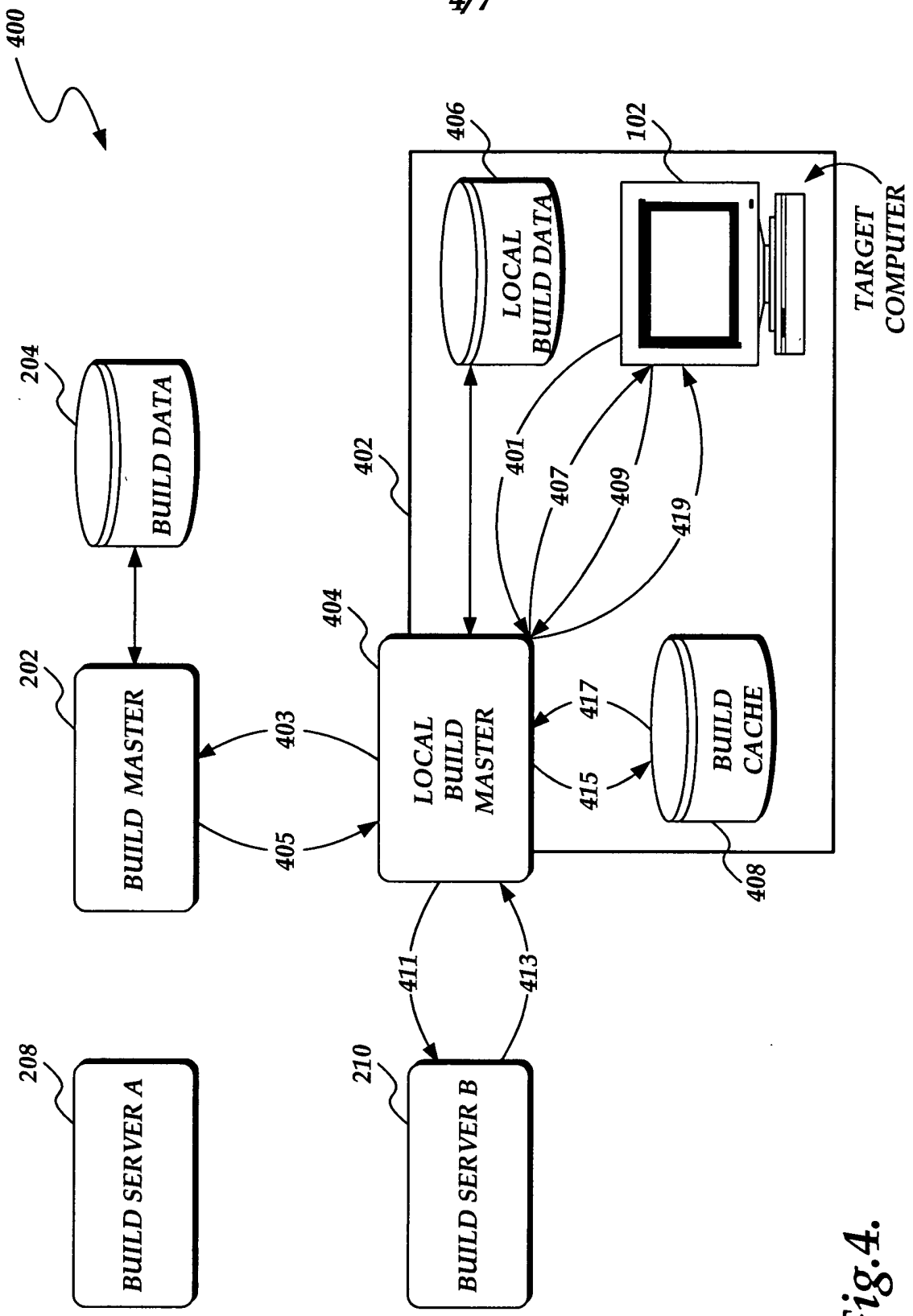
400
406
LOCAL BUILD DATA
102
TARGET COMPUTER
204
BUILD DATA
402
401
407
409
419
404
LOCAL BUILD MASTER
417
415
BUILD CACHE
202
BUILD MASTER
403
405
408
411
413
208
BUILD SERVER A
210
BUILD SERVER B

Fig.4.

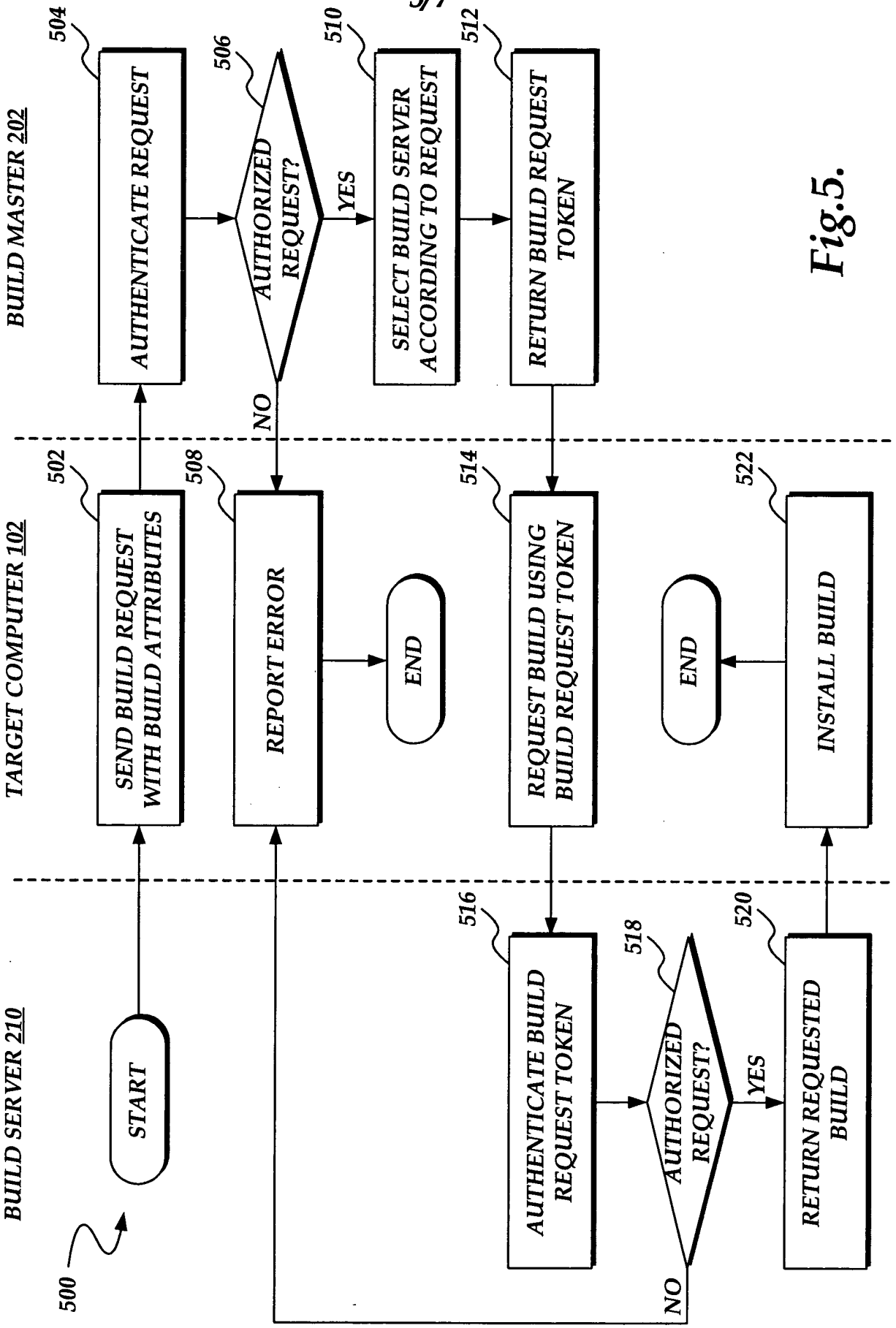
BUILD SERVER 210
TARGET COMPUTER 102
BUILD MASTER 202
500
START
502
SEND BUILD REQUEST WITH BUILD ATTRIBUTES
504
AUTHENTICATE REQUEST
506
AUTHORIZED REQUEST?
YES
NO
508
REPORT ERROR
END
510
SELECT BUILD SERVER ACCORDING TO REQUEST
512
RETURN BUILD REQUEST TOKEN
514
REQUEST BUILD USING BUILD REQUEST TOKEN
516
AUTHENTICATE BUILD REQUEST TOKEN
518
AUTHORIZED REQUEST?
YES
NO
520
RETURN REQUESTED BUILD
522
INSTALL BUILD
END

Fig.5.

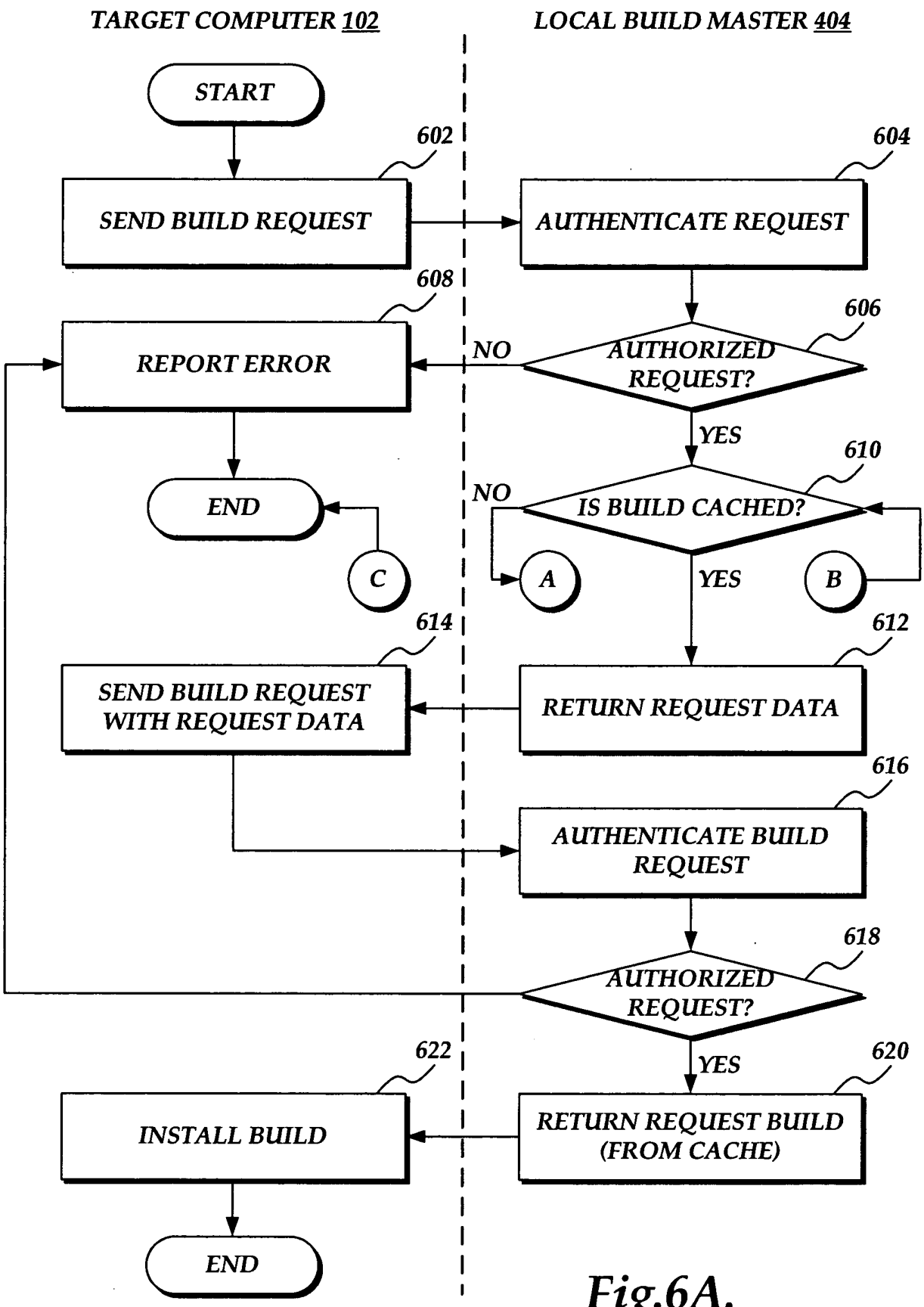
TARGET COMPUTER 102
LOCAL BUILD MASTER 404
START
602
SEND BUILD REQUEST
604
AUTHENTICATE REQUEST
608
REPORT ERROR
NO
606
AUTHORIZED REQUEST?
YES
610
NO
IS BUILD CACHED?
END
C
A
YES
B
614
SEND BUILD REQUEST WITH REQUEST DATA
612
RETURN REQUEST DATA
616
AUTHENTICATE BUILD REQUEST
618
AUTHORIZED REQUEST?
YES
622
INSTALL BUILD
620
RETURN REQUEST BUILD (FROM CACHE)
END

Fig.6A.

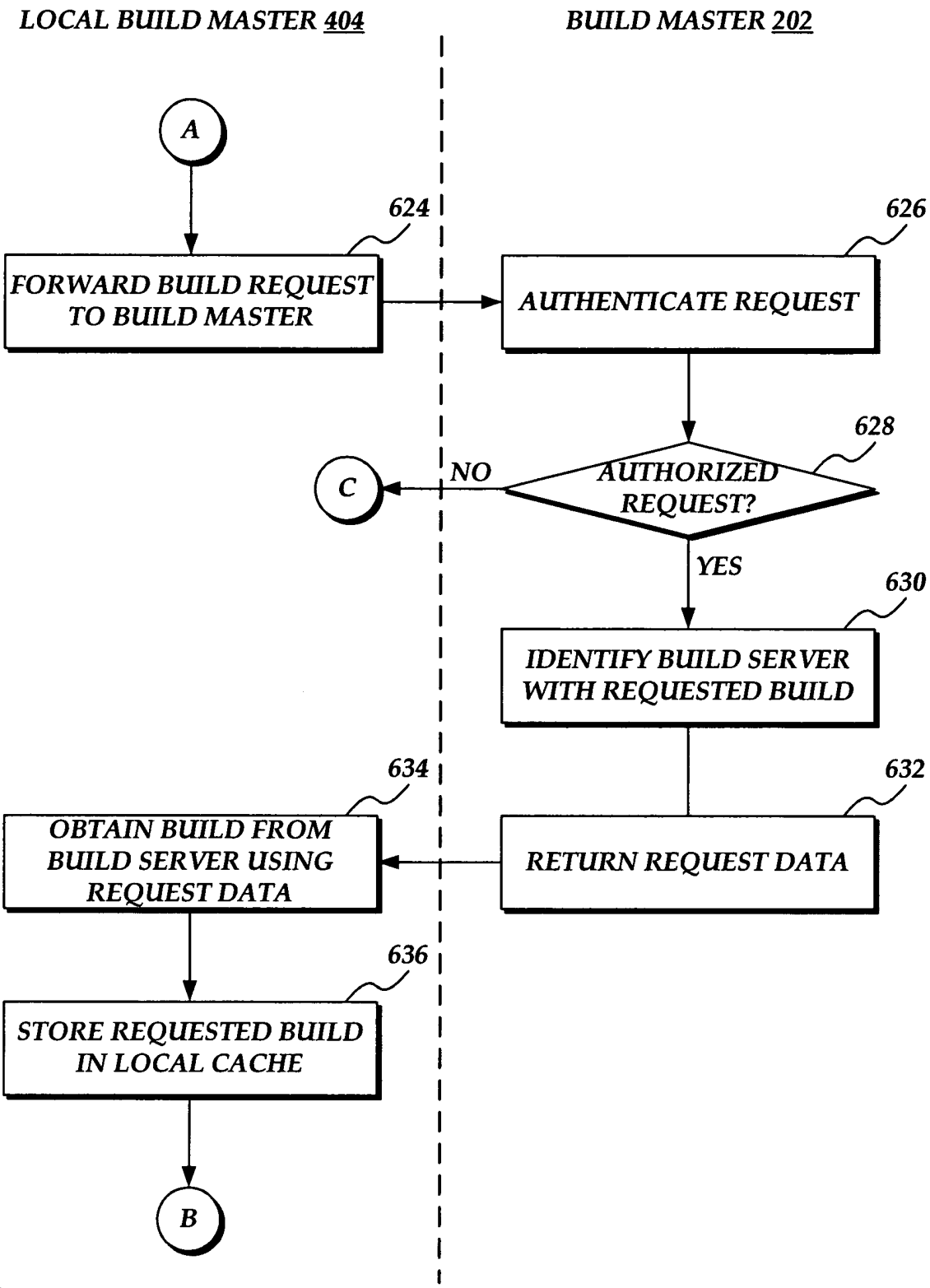
LOCAL BUILD MASTER 404
BUILD MASTER 202
A
624
FORWARD BUILD REQUEST TO BUILD MASTER
626
AUTHENTICATE REQUEST
628
AUTHORIZED REQUEST?
NO
C
YES
630
IDENTIFY BUILD SERVER WITH REQUESTED BUILD
632
RETURN REQUEST DATA
634
OBTAIN BUILD FROM BUILD SERVER USING REQUEST DATA
636
STORE REQUESTED BUILD IN LOCAL CACHE
B

Fig.6B.